

CLAIMS

What is claimed is:

1. An electrical cable comprising:

- 5 conducting strands;
 reinforcing strands surrounding the conducting reinforcing strands and located
near the outer periphery thereof; and
 a holding member containing an optic fiber located in an interstice of the
electrical cable.

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2. The conductor of claim 1, wherein the holding member is located in an interstice
formed by the reinforcing strands.

3. The conductor of claim 1, wherein the holding member is located in an interstice
15 formed by the conducting strands.

4. The conductor of claim 1, wherein the holding member is located in an interstice
formed by the reinforcing strands and conducting strands.

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5. An electrical cable comprising:

- strands forming a core of the cable; and
 a holding member containing an optic fiber, wherein the holding member
replaces at least one of the strands.

6. The electrical cable of claim 5, wherein the strands are comprised of reinforcing strands located near the outer periphery of the core and conducting strands that are surrounded by the reinforcing strands; and wherein the holding member replaces at least one of the reinforcing strands.
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7. The cable of claim 6, wherein the holding member replaces at least one of the reinforcing strands near the conducting strands.
8. The cable of claim 5, wherein the holding member replaces at least one of the
- 10 conducting strands.
9. The cable of claim 6, further comprising a second holding member that replaces at least one of the conducting strands.
- 15 10. The conductor of claim 5, wherein the optic fiber is heat resistant.
11. An electrical cable comprising:
- a conducting core;
 - a layer of insulating/bedding tape surrounding the core;
 - 20 a corrugated welded armor surrounding the layer of insulation/bedding tape;
 - and
 - a first holding member arranged longitudinally along the cable between the layer of insulation/bedding tape and the corrugated welded armor.

12. The cable of claim 11, wherein the holding member is oval shaped and forms at least one opening.

13. The cable of claim 12, wherein the opening is oval shaped.

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14. The cable of claim 11, further comprising a second holding member arranged longitudinally along the cable.

15. The cable of claim 14, wherein the second holding member is opposite to the first
10 holding member.

16. The cable of claim 14, wherein the second holding member is located between the layer of insulation/bedding tape and the corrugated welded armor.

15 17. The cable of claim 14, further comprising a third holding member arranged longitudinally along the cable.

18. The cable of claim 17, further comprising a fourth holding member arranged longitudinally along the cable.

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19. The cable of claim 11, further comprising an outer jacket material, wherein the holding member is arranged longitudinally along the cable in the jacket material.

20. The cable of claim 11, further comprising stranded neutrals.

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21. An electrical cable, comprising:
- a conductive core; and
 - a means for holding an optic fiber.
- 5 22. The cable of claim 21, further comprising:
- a layer of insulating bedding/tape surrounding the core; and
 - stranded neutrals placed over the layer of insulating bedding/tape, wherein one of the stranded neutrals is replaced by the means for holding an optic fiber.
- 10 23. A method of manufacturing the cable of claim 5, comprising:
- feeding a core strand into a strander device; and
 - placing a holding member on the core strand.
24. A method of manufacturing the cable of claim 7, comprising:
- 15 feeding a core strand into a strander device,
- placing a holding member on the core strand, and
 - covering the core strand and the holding member with additional strands.
25. A method of manufacturing the cable of claim 10, comprising:
- 20 feeding a core strand into a strander device having a flyer for applying additional strands and a planetary flyer for a holding member,
- matching the rotation of the flyer with the rotation of the planetary flyer, and
 - applying the additional strands and the holding member to the core strand.